ABSTRACT

MASS SPECTROMETER

A mass spectrometer is disclosed wherein the experimentally determined mass to charge ratios of ions are reported together with an error band for each mass to charge ratio determination. The error band may, for example, reflect a 95% probability or confidence that the real, true, actual or accepted mass to charge ratio of the ion lies within the error band. By accurately determining the error band the possible candidate ions in a database can be accurately restricted whilst also guarding against over restriction.

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